

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB2004/002112

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G11B7/00 G11B7/09 G11B7/135

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 722 079 A (MATSUMOTO KEIICHI) 26 January 1988 (1988-01-26) the whole document	1,2
A	US 4 571 716 A (SZERLIP STANLEY R) 18 February 1986 (1986-02-18) the whole document	1,2
A	US 5 267 226 A (MATSUOKA KAZUHIKO ET AL) 30 November 1993 (1993-11-30) the whole document	1,2
A	EP 0 427 478 A (SONY CORP) 15 May 1991 (1991-05-15) the whole document	1,2
-/--		

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

G document member of the same patent family

Date of the actual completion of the international search

22 October 2004

Date of mailing of the international search report

03/11/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Kyranos, E

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/002112

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 428 208 A (LASER MAGNETIC STORAGE INT) 22 May 1991 (1991-05-22) the whole document -----	1,2
A	PATENT ABSTRACTS OF JAPAN vol. 0041, no. 68 (P-037), 20 November 1980 (1980-11-20) & JP 55 113137 A (FUJITSU LTD), 1 September 1980 (1980-09-01) the whole document -----	1,2
A	US 5 953 292 A (ARAKI YOSHITSUGU ET AL) 14 September 1999 (1999-09-14) the whole document -----	1,2

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2004/002112

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4722079	A	26-01-1988	JP 1805869 C JP 5017610 B JP 61039940 A	26-11-1993 09-03-1993 26-02-1986
US 4571716	A	18-02-1986	US 4980878 A	25-12-1990
US 5267226	A	30-11-1993	JP 1149236 A JP 2107670 C JP 8027967 B	12-06-1989 06-11-1996 21-03-1996
EP 0427478	A	15-05-1991	JP 2757500 B2 JP 3150727 A DE 69019467 D1 DE 69019467 T2 EP 0427478 A2 KR 177925 B1 US 5239529 A	25-05-1998 27-06-1991 22-06-1995 21-09-1995 15-05-1991 15-04-1999 24-08-1993
EP 0428208	A	22-05-1991	US 5142515 A DE 69025267 D1 DE 69025267 T2 EP 0428208 A2 ES 2103721 T3 JP 3192574 A JP 3236286 B2 KR 196233 B1	25-08-1992 21-03-1996 22-08-1996 22-05-1991 01-10-1997 22-08-1991 10-12-2001 15-06-1999
JP 55113137	A	01-09-1980	NONE	
US 5953292	A	14-09-1999	JP 3547589 B2 JP 11025476 A	28-07-2004 29-01-1999